



ACI COMMITTEE 341 MEETING - EARTHQUAKE-RESISTANT CONCRETE BRIDGES

Sunday, March 25, 2018

Grand America & Little America, Salt Lake City, UT

MAIN COMMITTEE

341 Earthquake-Resistant Concrete Bridges Sunday 3:00 PM - 5:00 PM LA-Arizona

SUBCOMMITTEES

341-A Columns Sunday 1:00 PM – 3:00 PM LA-Arizona

341-C Retrofit Sunday 9:00 AM – 11:00 AM LA-Arizona

341-D PBSB Sunday 11:00 AM – 1:00 PM LA-Arizona

OTHER BRIDGE COMMITTEES

342 Bridge Evaluation Sunday 8:30 AM - 10:30 AM GA-Imperial Ball D

343 Bridge Design Monday 10:00 AM - 12:00 PM LA-Olympus

345 Construction Sunday 1:30 PM - 3:30 PM GA-Sussex

MEETING AGENDA

- 1) Call to order and introduction
- 2) Approval of the meeting agenda
- 3) Review and approval of the Anaheim meeting minutes
- 4) Membership updates, committee and subcommittee updates
- 5) Technical sessions

Spring 2018 – Concrete Elevated

March 25-29, Grand America & Little America, Salt Lake City, UT

- Accelerated Bridge Construction (ABC) Component and System Behavior (Tazarv, Haber): Mon, March 26, 2018 11:00 AM - 1:00 PM, GA-Milano
- Seismic Repair and Retrofit of Concrete Bridges (Alam): Sun, March 25, 2018 3:30 PM - 5:30 PM, GA-Audubon
- Rating Methods for Defining Performance of Existing Concrete Bridges, Joint with 342: Sun, March 25, 2018 8:30 AM - 9:30 AM, GA- Imperial Ballroom D (Mini-session), and Mon, March 26, 2018 4:00 PM - 6:00 PM, GA-Riviera

Fall 2018 – Dream Big, Build Bigger

October 14-18, Rio All-Suites Hotel & Casino, Las Vegas, NV

- Preliminary session request: October 20, 2017
- Final session request: March 30, 2018
- Approved sessions
 - Seismic Analysis, Design, and Construction of Concrete Buildings and Bridges, Joint with 345. Deadline for Abstracts: January 31, 2018, Deadline for Final Papers: April 30, 2018 (to Jimmy Kim) – subsequently withdrawn

- Proposed sessions
 - UHPC with 239 (Mohamed), mini-session perhaps?
 - ABC more broadly (not just columns) mini-session (Tazarv)?
 - Analysis and modeling session (like SOA from recent projects completed, not to overlap with Abdel-Mohti session)? (Moustafa)
 - Sessions to support the Retrofit and PBD subcommittees. Performance-based seismic design example studies could be presented but solicit engagement from broader audience?

Spring 2019 – Theme TBD

March 24-28, Quebec City Convention Centre and Hilton Quebec, Quebec City, Quebec, Canada

- Preliminary session request: March 30, 2018
- Final session request: October 19, 2018
- Proposed sessions
 - High speed rail and light rail (Nadim, Shukre), contact Atorod
 - Sessions to support the Retrofit and PBD subcommittees?
 - Something specific to Canada?
 - Revisit an isolation session (Watson). Maybe include joints and bearings
 - New ideas?

Fall 2019 – Theme TBD

October 20-24, Duke Energy Convention Center & Hyatt Regency Cincinnati, Cincinnati, OH

- Preliminary session request: October 19, 2018
- Final session request: March 29, 2019
- Proposed sessions
 - Sessions to support the Retrofit and PBD subcommittees?
 - SSI session
 - Showcase of new global seismic bridge projects recently constructed
 - New ideas?

Spring 2020 – Theme TBD

March 29-April 2, Hyatt Regency O'Hare, Rosemont, IL

- Preliminary session request: March 29, 2019
- Final session request: October 25, 2019
- Proposed sessions
 - Sessions to support the Retrofit and PBD subcommittees?
 - Something specific to Midwest seismic interests?
 - New and novel bridge systems (not just columns) for seismic regions
 - New ideas?

Non-ACI Technical Sessions

- 16th ECEE joint with EAEE WG 11 “New technologies for seismic-resistant bridge columns” (Mackie)
- 11th NCEE “Advances in bridge modeling and nonlinear time history analysis” (Moustafa) and “New technologies for bridge columns” (ElGawady)

- Joint with ASCE Seismic Effects “Novel Bridges for Seismic Resilience and Enhanced Constructability” (Tazarv, Sideris)
 - 6th EMM
- 6) Sub-Committee Reports
 - a) Performance Based Seismic Design of Bridge Columns (ElGawady, Gencturk)
 - b) Wall Piers (Burgueño, Beyer), ballot updates
 - c) Retrofit and Repair (Alam, Despradel, Andrawes)
 - d) Performance Based Seismic Design of Bridges (Silva)
 - e) Bearings and Expansion Joints (Watson)
 - f) Others
 - 7) Report from other ACI committees
 - a) ACI 342 Evaluation of Concrete Bridges and Bridge Elements
 - b) ACI 343 Concrete Bridge Design (Joint ACI-ASCE)
 - c) ACI 345 Concrete Bridge Construction, Maintenance, and Repair
 - d) ACI Committees 352 (Joints and Connections in Monolithic Concrete Structures, Joint ACI-ASCE), 374 (Performance-Based Seismic Design of Concrete Buildings), and 441 (Reinforced Concrete Columns, Joint ACI-ASCE)
 - 8) Future Meetings
 - 9) Update from TAC – Cathy French
 - 10) Other Business

PRESENTATION

Leo Barclay and Mervyn Kowalsky

North Carolina State University

Initial studies on 706-80 Reinforced Concrete Bridge Columns and Development of the 'Buckled Bar Tension Test'